

## EPA Official Record

**Notes ID:** 964A5E669F0971CE8499E3565B1A9184

**From:** John Satterfield <john.satterfield@chk.com>

**To:** Robert Puls/ADA/USEPA/US@EPA

**Delivered Date:** 11/28/2011 11:26 AM EDT

**Subject:** RE: conf call on Mon Nov 21 1 pm CT

Thanks.. we've already pulled several QAPP's off the EPA website that appear to have been posted on 22 NOV.

Is what will be sent to Jen different than what's online?

From: Puls.Robert@epamail.epa.gov [mailto:Puls.Robert@epamail.epa.gov]

Sent: Monday, November 28, 2011 10:16 AM

To: John Satterfield

Subject: RE: conf call on Mon Nov 21 1 pm CT

I think they are in the process of contacting the industry reps (Jen Hoffman in your case) regarding distribution of QAPPs

Robert W. Puls, Ph.D.

Agency Technical Lead, Hydraulic Fracturing Study

Ground Water and Ecosystems Restoration Division

National Risk Management Research Laboratory, USEPA

P.O. Box 1198 / 919 Kerr Research Dr.

Ada, OK 74820

puls.robert@epa.gov

580-436-8543 (phone)

405-323-8119 (mobile)

---

From: John Satterfield <john.satterfield@chk.com>

To: Robert Puls/ADA/USEPA/US@EPA, Chris Hill <chris.hill@chk.com>

Cc: Bert Smith <bert.smith@chk.com>, Cassi Vann <cassi.vann@chk.com>, Debby McElreath <debby.mcelreath@chk.com>, Fonda Manwell <fonda.manwell@chk.com>, "Gflorentino@ene.com" <gflorentino@ene.com>, "GLukert@ene.com"

<GLukert@ene.com>, Michael Overbay/R6/USEPA/US@EPA, Mike Brownell <mike.brownell@chk.com>, Nancy Coleman <nancy.coleman@chk.com>, Steve Vandegrift/ADA/USEPA/US@EPA, Susan Mravik/ADA/USEPA/US@EPA

Date: 11/21/2011 11:33 AM

Subject: RE: conf call on Mon Nov 21 1 pm CT

Thanks Bob. Agree on postponing.

When can we expect to receive a copy of the approved QAPP under which the Bradford County retrospective study work was performed in October? And against what standard was the QAPP reviewed and approved since it appears the overall HF Study's QMP has not yet been approved? Or are we misunderstanding the significance of the QMP to the overall HF Study?

Also, can you provide the list of peer reviewers of the Final Study Plan and individual QAPP's? During the recent stakeholder conference call, I believe Dr. Anastas indicated this information would be made public. Understand if you're not the right person to direct the question to and if that's the case, any insight would be helpful.

From: Puls.Robert@epamail.epa.gov [mailto:Puls.Robert@epamail.epa.gov]  
Sent: Monday, November 21, 2011 11:19 AM  
To: Chris Hill  
Cc: Bert Smith; Cassi Vann; Debby McElreath; Fonda Manwell;  
'gflorentino@ene.com'; 'GLukert@ene.com'; John Satterfield;  
Overbay.Michael@epamail.epa.gov; Mike Brownell; Nancy Coleman;  
Vandegrift.Steve@epamail.epa.gov; Mravik.Susan@epamail.epa.gov  
Subject: RE: conf call on Mon Nov 21 1 pm CT

I am trying to get a signed copy of the QMP given CHKs focus on it. I think we should postpone the call today until I have that to send to CHK.

Robert W. Puls, Ph.D.  
Agency Technical Lead, Hydraulic Fracturing Study  
Ground Water and Ecosystems Restoration Division  
National Risk Management Research Laboratory, USEPA  
P.O. Box 1198 / 919 Kerr Research Dr.  
Ada, OK 74820  
puls.robert@epa.gov  
580-436-8543 (phone)  
405-323-8119 (mobile)

---

From: Chris Hill <chris.hill@chk.com>  
To: Robert Puls/ADA/USEPA/US@EPA  
Cc: Bert Smith <bert.smith@chk.com>, Cassi Vann <cassi.vann@chk.com>, Debby McElreath <debby.mcelreath@chk.com>, Fonda Manwell <fonda.manwell@chk.com>, "'gflorentino@ene.com'" <gflorentino@ene.com>, "'GLukert@ene.com'" <GLukert@ene.com>, John Satterfield <john.satterfield@chk.com>, Michael Overbay/R6/USEPA/US@EPA, Mike Brownell <mike.brownell@chk.com>, Nancy Coleman <nancy.coleman@chk.com>, Steve Vandegrift/ADA/USEPA/US@EPA, Susan Mravik/ADA/USEPA/US@EPA  
Date: 11/21/2011 11:15 AM  
Subject: RE: conf call on Mon Nov 21 1 pm CT

We are more than happy to discuss the revisions in greater detail during the conference call today. Are we still planning to have this call?

In summary, CHK has provided information that can be incorporated into the QAPP. However, given the Quality Management Plan and Data Quality Objectives have not been provided to the prospective study team (including CHK), we cannot

speak to whether or not the information provided is aligned with EPA requirements/objectives for this study.

Please let me know if you have any additional questions. I look forward to our discussion.

Thanks,  
Chris

From: Puls.Robert@epamail.epa.gov [mailto:Puls.Robert@epamail.epa.gov]  
Sent: Monday, November 21, 2011 9:41 AM  
To: Chris Hill  
Cc: Bert Smith; Cassi Vann; Debby McElreath; Fonda Manwell;  
'gflorentino@ene.com'; 'GLukert@ene.com'; John Satterfield;  
Overbay.Michael@epamail.epa.gov; Mike Brownell; Nancy Coleman;  
Vandegrift.Steve@epamail.epa.gov; Mravik.Susan@epamail.epa.gov  
Subject: RE: conf call on Mon Nov 21 1 pm CT

It was my understanding that you wanted to revise this for inclusion into the QAPP. Are you indicating that those revisions have been made?

Robert W. Puls, Ph.D.  
Agency Technical Lead, Hydraulic Fracturing Study  
Ground Water and Ecosystems Restoration Division  
National Risk Management Research Laboratory, USEPA  
P.O. Box 1198 / 919 Kerr Research Dr.  
Ada, OK 74820  
puls.robert@epa.gov  
580-436-8543 (phone)  
405-323-8119 (mobile)

---

From: Chris Hill <chris.hill@chk.com>  
To: Robert Puls/ADA/USEPA/US@EPA  
Cc: Bert Smith <bert.smith@chk.com>, Cassi Vann <cassi.vann@chk.com>, Debby McElreath <debby.mcelreath@chk.com>, Fonda Manwell <fonda.manwell@chk.com>, "'gflorentino@ene.com'" <gflorentino@ene.com>, "'GLukert@ene.com'" <GLukert@ene.com>, John Satterfield <john.satterfield@chk.com>, Michael Overbay/R6/USEPA/US@EPA, Mike Brownell <mike.brownell@chk.com>, Nancy Coleman <nancy.coleman@chk.com>, Steve Vandegrift/ADA/USEPA/US@EPA, Susan Mravik/ADA/USEPA/US@EPA  
Date: 11/21/2011 10:12 AM  
Subject: RE: conf call on Mon Nov 21 1 pm CT

Bob,

Please find the revised draft produced water sampling procedure. CHK originally provided this document to the EPA on September 19, 2011. As we discussed during our last conference call, CHK is supplying this draft document for the EPA to reference during the QAPP development. Let me know if you have any questions.

Thanks,

Chris

From: Puls.Robert@epamail.epa.gov [mailto:Puls.Robert@epamail.epa.gov]  
Sent: Monday, November 21, 2011 6:54 AM  
To: Chris Hill  
Cc: Bert Smith; Cassi Vann; Debby McElreath; Fonda Manwell;  
'gflorentino@ene.com'; 'GLukert@ene.com'; John Satterfield;  
Overbay.Michael@epamail.epa.gov; Mike Brownell; Nancy Coleman;  
Vandegrift.Steve@epamail.epa.gov; Mravik.Susan@epamail.epa.gov  
Subject: RE: conf call on Mon Nov 21 1 pm CT

Robert W. Puls, Ph.D.  
Agency Technical Lead, Hydraulic Fracturing Study  
Ground Water and Ecosystems Restoration Division  
National Risk Management Research Laboratory, USEPA  
P.O. Box 1198 / 919 Kerr Research Dr.  
Ada, OK 74820  
puls.robert@epa.gov  
580-436-8543 (phone)  
405-323-8119 (mobile)

---

This email (and attachments if any) is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by return email and destroy all copies of the email (and attachments if any).[attachment "HFstudyQAP\_Produced\_Flowback\_Sampling\_Section 11\_21\_2011.doc" deleted by Robert Puls/ADA/USEPA/US]

This email (and attachments if any) is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by return email and destroy all copies of the email (and attachments if any).

This email (and attachments if any) is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by return email and destroy all copies of the email (and attachments if any).

This email (and attachments if any) is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by return email and destroy all copies of the email (and attachments if any).